



Changes made in the C4 PGE11 LSR code

1. Improvement in the internal cloud mask (more clouds flagged)
2. Introduction of cloud shadow (geometric approach)
3. Improvement in internal fire mask (false detections) improve aerosol retrieval.
4. Improvement in the aerosol interpolation scheme (low and high resolution).
5. Improvement in aerosol retrieval (filter more bright areas), check consistency of corrected reflectance.
6. Set Cirrus bits



Changes made in the C4 PGE21 LSR 8days code

1. Use MOD09 internal cloud mask in the observation selection process.
2. Change the compositing scheme to select clear observations with maximum observation coverage that are closest to the nadir view.
3. Add logic to handle inconsistencies in the input data. This will avoid ungraceful exit of the code if bad inputs are used.
4. Add support for the SIN grid.



Forthcoming improvements: PGE11

1. Correction of issues with the cloud mask over inland water / improvement in cloud masking (edge of clouds). End of the week delivery – 8 days test needed.
2. Noise in short wave infrared (detector equalization). Prototype developed. delivery prior to Nov00 data processing. Intensive test needed.
3. Improvement of retrieval/correction in bright areas (use of 412nm or ancillary sources). Before Nov 00 data processing. Test needed
4. Use of new LUT based on dynamic aerosol model (Collection 5)
5. BRDF coupling correction (shape approach) (Collection 5)
6. Adjacency effect correction (Collection 5)



Forthcoming improvements: PGE21

1. Correction in scoring (aerosol climatology), code delivered test before re-processing
2. Aqua/Terra PGE (Collection 4/5)?